

## AutoCAD 2012 and AutoCAD LT 2012 Essentials

### Course Objectives

The primary objective of this course is to teach students the basic commands necessary for professional 2D drawing, design, and drafting using AutoCAD and AutoCAD LT.

After completing this course, students will be able to:

- Navigate the AutoCAD and AutoCAD LT user interfaces.
- Use the fundamental features of AutoCAD and AutoCAD LT.
- Use the precision drafting tools in AutoCAD and AutoCAD LT to develop accurate technical drawings.
- Present drawings in a detailed and visually impressive way.

### Who Should Attend / Prerequisites

This course is designed for new users of AutoCAD or AutoCAD LT. Before taking this course, the student should have a working knowledge of the following:

- Drafting, design, or engineering principles.
- Microsoft® Windows® 7, Microsoft® Windows® Vista or Microsoft® Windows® XP.

### Course Outline

#### **Getting Started with AutoCAD**

- Starting AutoCAD
- AutoCAD's User Interface
- Working with Commands
- AutoCAD's Cartesian Workspace
- Opening an Existing Drawing File
- Viewing Your Drawing
- Saving Your Work

#### **Basic Drawing & Editing Commands**

- Drawing Lines
- Erasing Objects
- Drawing Lines with Polar Tracking
- Drawing Rectangles
- Drawing Circles
- Undo and Redo Actions

#### **Drawing Precision in AutoCAD**

- Using Running Object Snaps
- Using Object Snap Overrides
- Polar Tracking at Angles
- Object Snap Tracking
- Drawing with Snap and Grid (Optional)

#### **Making Changes in Your Drawing**

- Selecting Objects for Editing
- Moving Objects
- Copying Objects
- Rotating Objects
- Scaling Objects

- Mirroring Objects
- Editing with Grips

#### **Organizing Your Drawing with Layers**

- Creating New Drawings With Templates
- What are Layers?
- Layer States
- Changing an Object's Layer

#### **Advanced Object Types**

- Drawing Arcs
- Drawing Polylines
- Editing Polylines
- Drawing Polygons
- Drawing Ellipses

#### **Getting Information from Your Drawing**

- Working with Object Properties
- Measuring Objects

#### **Advanced Editing Commands**

- Trimming and Extending Objects
- Stretching Objects
- Creating Fillets and Chamfers
- Offsetting Objects
- Creating Arrays of Objects

#### **Inserting Blocks**

- What are Blocks?
- Inserting Blocks
- Working with Dynamic Blocks
- Inserting Blocks with DesignCenter

- Inserting Blocks with Content Explorer

#### **Setting Up a Layout**

- Printing Concepts
- Working in Layouts
- Copying Layouts
- Creating Viewports
- Guidelines for Layouts

#### **Printing Your Drawing**

- Printing Layouts
- Printing from the Model Tab

#### **Text**

- Working with Annotations
- Adding Text in a Drawing
- Modifying Multiline Text
- Formatting Multiline Text
- Adding Notes with Leaders to Your Drawing
- Creating Tables
- Modifying Tables

#### **Hatching**

- Hatching
- Editing Hatches

#### **Adding Dimensions**

- Dimensioning Concepts
- Adding Linear Dimensions
- Adding Radial & Angular Dimensions
- Editing Dimensions

**Course Duration:** 3 Days (21 Hours)

**Tuition:** \$900.00 / Student